

**FIG. 1 (PRIOR ART)**

LUBRICANT LAYER (15)
PROTECTIVE LAYER (14)
PERPENDICULAR MAGNETIC RECORDING LAYER (13)
PERPENDICULARLY-ORIENTED UNDERLAYER (12)
SUBSTRATE (10)

**FIG. 2 (PRIOR ART)**

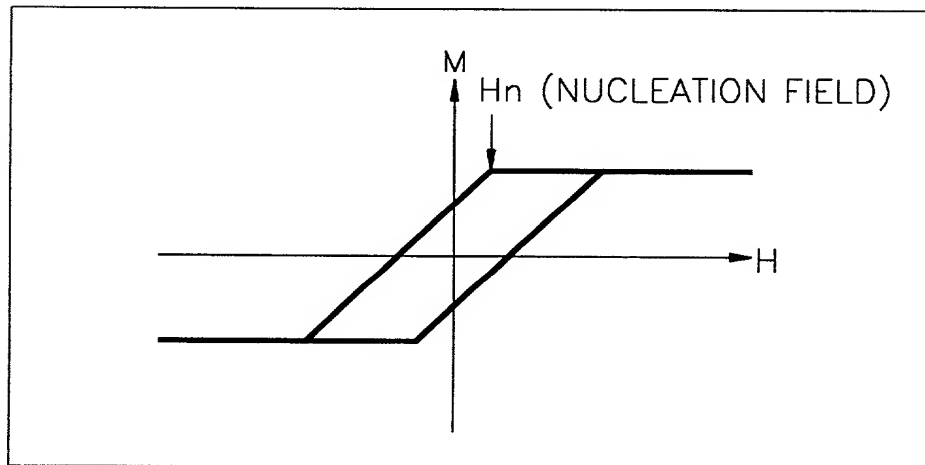


FIG. 3A

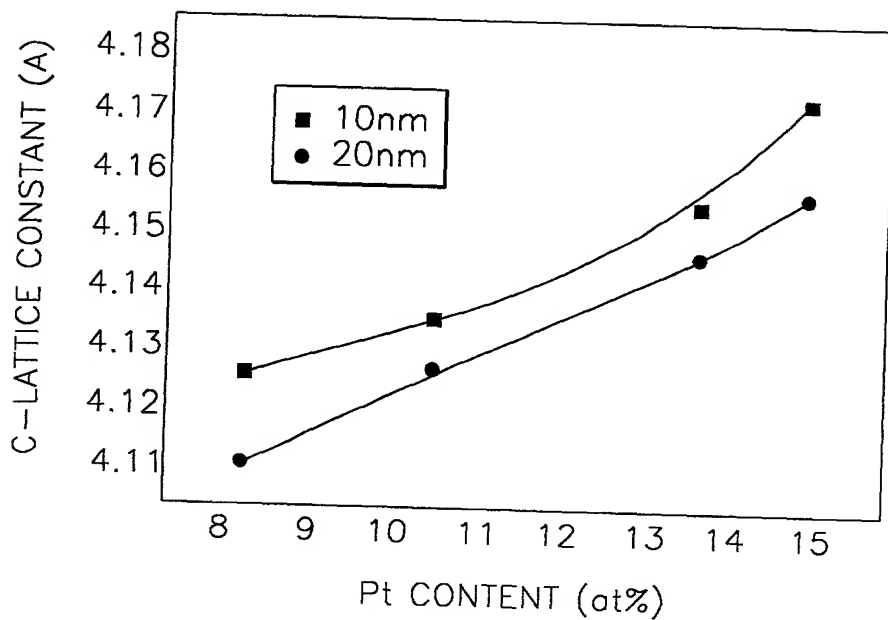
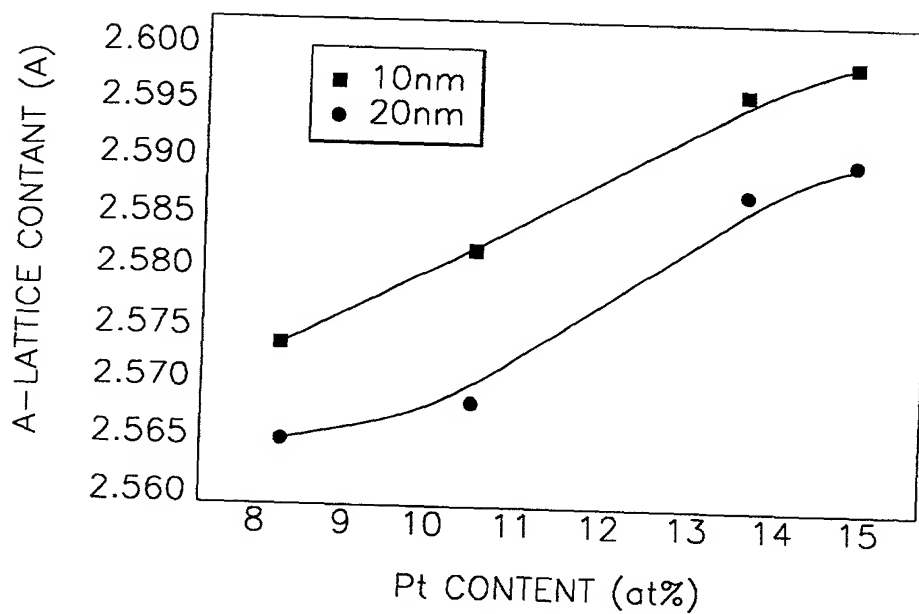


FIG. 3B



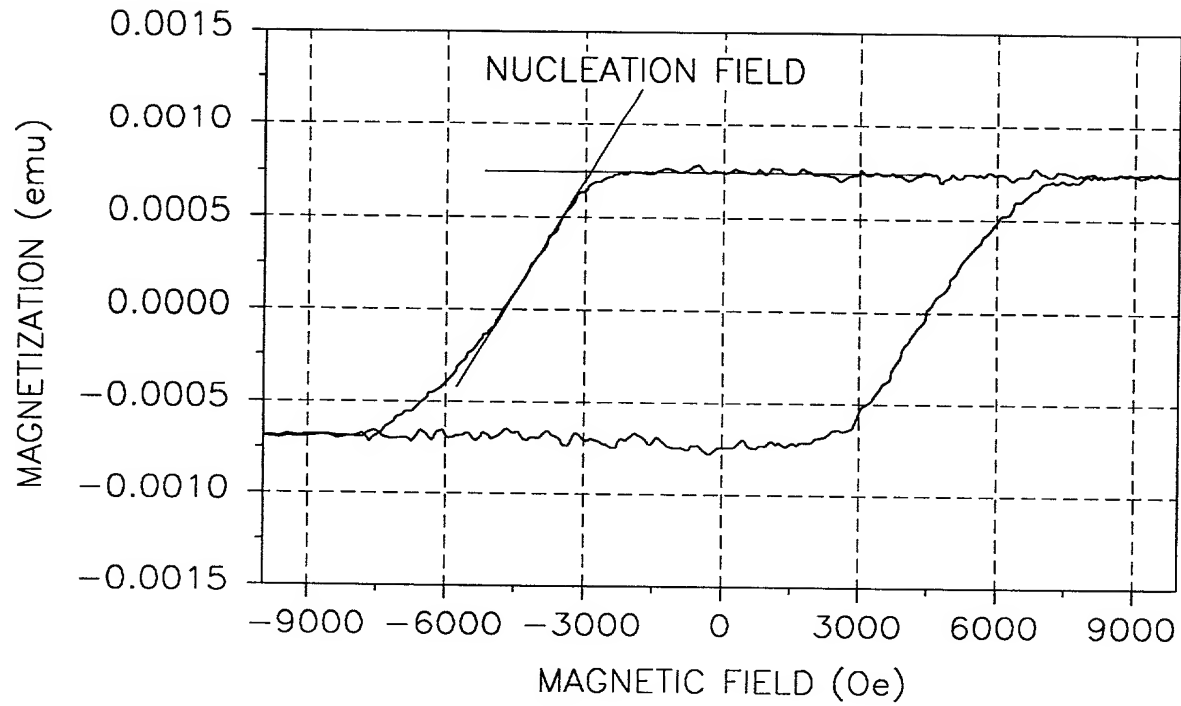
**FIG. 4**

FIG. 5

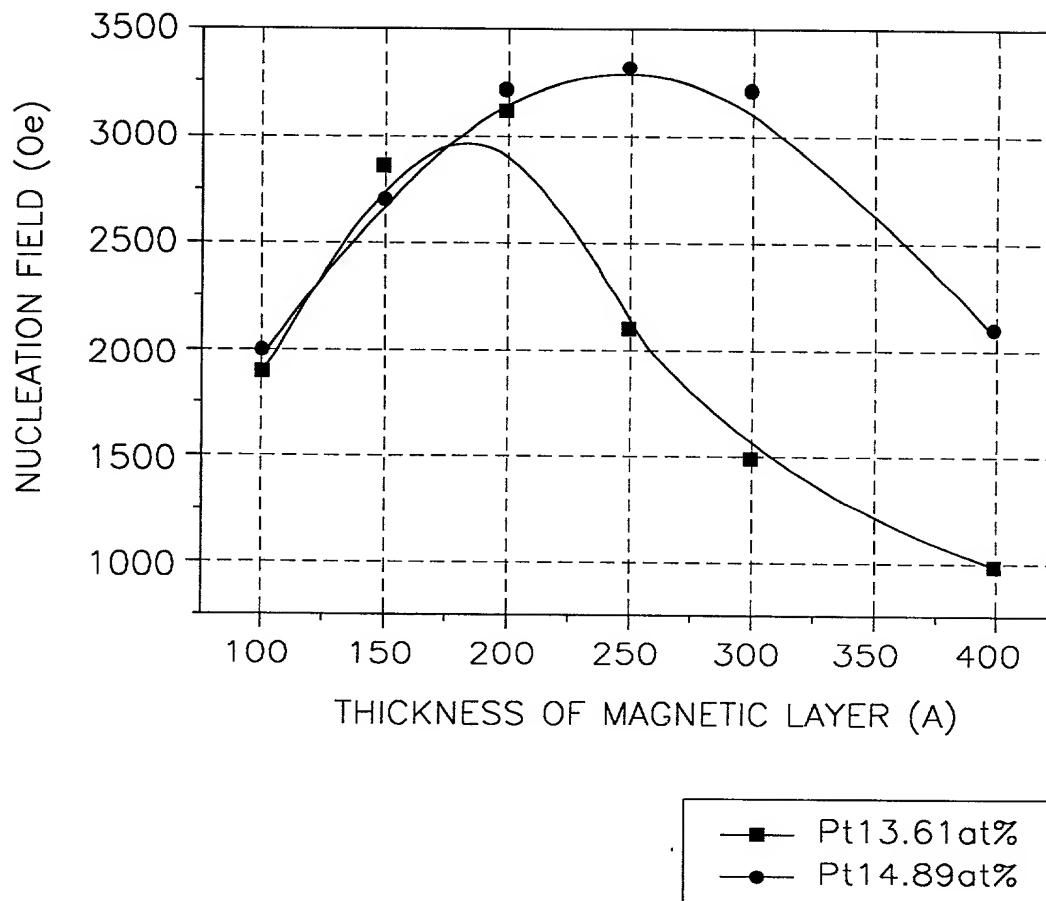


FIG. 6

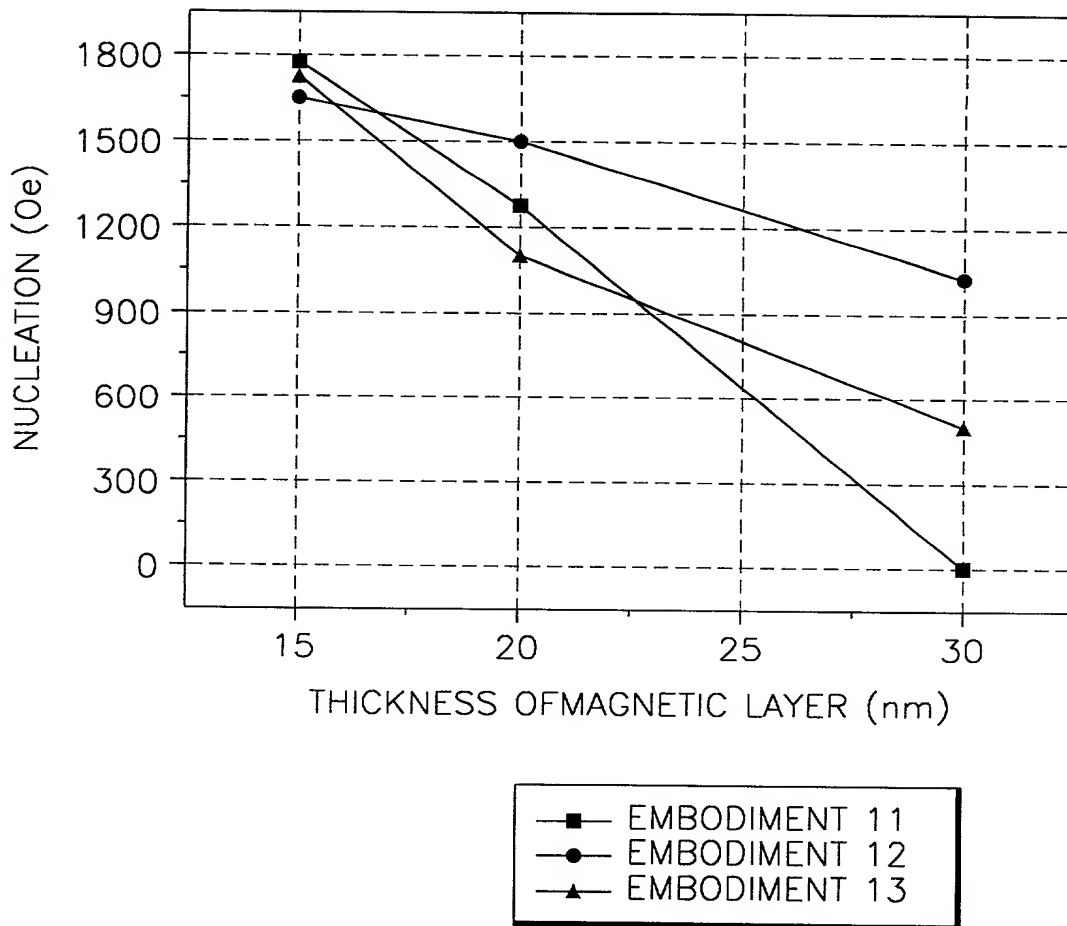


FIG. 7

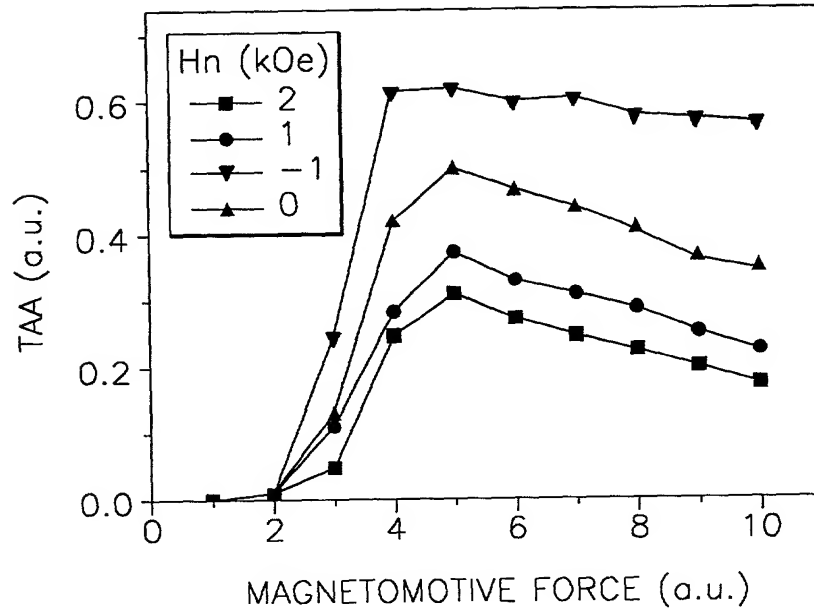


FIG. 8

